

1604 DUOLEC™ VARI-PURPOSE GEAR LUBRICANT

A.C. MILLER CONCRETE PRODUCTS, Blairsville, PA

Wiggert Concrete Mixer • SIC 3272 Concrete Products

⇒ **Extended Oil Drain Intervals**

⇒ **Energy Reduction of 21%**

CUSTOMER TESTIMONIAL

CUSTOMER PROFILE

A.C. Miller Concrete Products in Blairsville, Pennsylvania is a concrete casting company, specializing in the manufacturing of box culverts, retaining walls, bridge sections and prefabricated tunnel systems. They have been an LE customer since 2001.

APPLICATION

An essential piece of equipment in the manufacturing process is the Wiggert HPGM 2250 countercurrent concrete mixer. This machine mixes the concrete components in batches for each casting. The Wiggert mixer is rated at 75 HP driven through a planetary drive reduction box. The gearbox requires an ISO 150 EP gear oil.

AREA OF INTEREST

The mixer requires wash down following each day's production run. Condensation and wash down water would find its way into the planetary and emulsify with the gear oil forcing replacement of the oil at times on a weekly basis. Oil analysis indicated water content to exceed 20%.

LE SOLUTION

LE Lubrication
Consultant John Hayes



recommended 1604 DUOLEC™ Vari-Purpose Gear Lubricant. LE 1604 is a high performance gear oil acceptable for use in any industrial gear or bearing application that requires a high thermal stability, extreme pressure lubricant. LE 1604 separates readily from water and is fortified with a shear stable tackifier to provide adhesion to the metal during use. It contains DUOLEC™, LE's proprietary temperature activated, dual acting, liquid additive that increases film strength and EP characteristics.

CUSTOMER COST SAVINGS

The customer installed LE 1604 DUOLEC™ Vari-Purpose Gear Lubricant in the gearbox. With 1604's exceptional demulsibility characteristics, maintenance is able to routinely drain separated water from the bottom of the

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gearbox. Oil is now changed twice a year. An unexpected benefit was a realized drop in energy requirements to run the mixer. Upon changing to 1604 amperage dropped from 24 to 19 amps. A significant energy savings of 21%.

OTHER PRODUCTS USED

- 451 ALMASOL® Chain & Cable Lubricant
- 1606 DUOLEC™ Vari-Purpose Gear Lubricant
- 4622 MONOLEC® Multiplex Lubricant
- 4933 All Purpose Hydraulic Oil
- 6520 MONOLEC® Hydraulic Oil
- 6802 MULTILEC® Industrial Oil
- 7500 MONOLEC® Power Fluid
- 8430 MONOLEC® GFS Engine Oil
- 8800 MONOLEC ULTRA® Engine Oil

Lubrication Engineers Inc. would like to thank LE Lubrication Consultant John Hayes (pictured) for the information provided to prepare this report.

